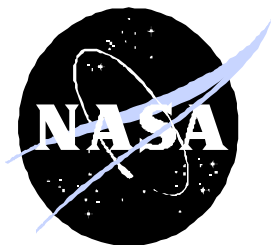# NASA HEADQUARTERS DESKTOP HARDWARE/SOFTWARE BASELINE PRODUCT SUITE

CMLS-HWS-05

National Aeronautics and
Space Administration

Headquarters
Washington, D.C

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APPENDICES

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1.0 INTRODUCTION

At the October 21, 1994 meeting of the HQ ADP/T Board of Directors a hardware/software desktop product suite baseline was established for NASA Headquarters. These baselines are intended to provide guidelines for desktop hardware and software systems as well as their supporting servers. The purpose is to provide guidance to ensure that the systems utilized throughout NASA Headquarters have the required functionality and exhibit interoperability features permitting exchange of information.

The approach used in this standard is to provide the current approved baselines for each of the systems. These will be updated and added to as user requirements change, technology enhancements become available, or as new releases of the products are approved.

The Workstation Standards Program is designed to continuously improve the return on NASA Headquarters' information technology (IT) investment. Its first principal theme is the "baselining" of current de facto Headquarters standards for computer products that both maximize interoperability and satisfy user requirements. The second theme is the competitive acquisition of products with new functionality that may become standards in turn. Finally, volume licensing agreements for the baseline products will be established to reduce acquisition and maintenance costs.

The current scope of the program is Federal Information Processing (FIP) commercial off-the shelf (COTS) software and workstation products. This program should improve Headquarters workforce productivity through increased information sharing, better knowledge of IT products, improved planning information, and better communication using common tools. Headquarters will emphasize making the acquisition of standard products as fast, simple, and economical as possible.

1.1   Purpose of NASA Headquarters Desktop Standards

The purpose of the NASA Headquarters Desktop Standards Program (HDSP) is to improve the return on NASA's IT investment by identifying COTS products that will aid in Headquarters integration. The goals of HDSP are to:

- Reduce impediments to the sharing of information
- Reduce the replication of skills and functions associated with technology, acquisitions, maintenance, and training
- Increase the use of common systems and services
- Maximize the use of COTS products
- Create a Headquarters baseline and definitive direction that will help Headquarters management plan their IT architecture and associated costs

- Reduce the costs associated with product acquisition and maintenance
- Provide improved, comprehensive HELP desk support
- Provide for configuration control and licensing compliance
- Provide for a common, cost effective training program

None of these goals are projected to prevent either technology advances or acquisitions that have mission-unique requirements.

1.2 Applicability of NASA Headquarters Information Systems Integration Standards

This document contains the current list of HDSP products. All NASA Headquarters-funded acquisitions of FIP COTS software, desktop hardware and server systems for use within NASA Headquarters-managed facilities shall use the provisions of this document.

It is not the intent of HDSP to influence contractors' corporate standards; the intent is to improve the Headquarters' interoperability. Normally, products acquired by organizations classified as on-site Headquarters' contractors are subject to the HDSP. This includes the IR&MS contractor at its on-and off-site locations. Products acquired by Headquarters prime contractors or subcontractors for use on contractor-controlled facilities that are external to Headquarters are not subject to the HDSP. However, off-site prime and subcontractors must ensure that their corporate products will interface with their NASA counterparts' products, if an interface is required.

The HDSP is applicable to any software product, workstation hardware or server that falls within a functional category of this document. Any acquisition for items that deviate from HDSP will require full review and approvals. Acquisition of items that are accepted HDSP products will not require further technical review and approval.

NOTE: The Automated Information Management (AIM) council has recently established standards for the agency-wide administrative application environment (Minimum Hardware/Software Standards for Extended AIM Architecture, dated September 24, 1993). HDSP is not intended to conflict with or modify any AIM standards; it is more generalized, applying to all NASA areas. In most cases, AIM calls for compliance with Federal standards, rather than listing specific products. In areas where AIM specifies products that fall within a HDSP functional category, the AIM standard is included as a HDSP standard.

1.3 Overview of the Selection Methodology

Standard products have been established for software executing on four platforms, for a range of desktop work stations and for file servers. Platforms are computer systems, including both hardware (the central processing unit and primary and secondary storage) and system software (the operating system and user interface). These platforms are defined in the order of this document's outline:

<u>Personal Workstation</u>: A desktop configuration of hardware and software that constitutes a functional unit designed for use by one person at a time. A personal workstation (as defined for purposes of HDSP) does not have UNIX as an operating system. Two "sub-platforms" of personal desktop systems are included: MS-Windows and Macintosh.

<u>UNIX-based Workstation</u>: A configuration of hardware and software that constitutes a functional unit designed for use by one person at a time, the primary operating system of which is UNIX (including any of its variants or derivatives). (For definition purposes only. Not currently within the scope of this standard.)

<u>Host</u>: A computer system designed to support multiple concurrent users, connected by terminals or other computers, including special purpose processors such as simulators, environmental control systems, security systems, etc. Four "sub-platforms" of hosts are included: IBM VM, IBM MVS, DEC VAX VMS, and UNIX-based. (For definition purposes only. Not currently within the scope of this standard.)

<u>File Server</u>: A multi-user computer system (i.e., host) that is a necessary part of a network of workstations and is used for sharing information processing resources including files and printers.

The HDSP Standards are not binding upon products acquired for use on sub-platforms other than the ones shown above. For example, a nonstandard data base management system (DBMS) could be acquired for a Concurrent or a MassComp computer system. However, use of products equivalent to the HDSP standards is strongly encouraged wherever they are available and meet requirements. In our example, if Oracle is available for Concurrent, it would be recommended to enhance interoperability across NASA Headquarters.

Four primary rules were used in determining the standard products suite:

<u>Rule 1: Comply with CIO and ADP/T Board direction.</u>

<u>Rule 2: The products are "de facto" standards</u>. The selected products should be "de facto" standards in current common use or recommended for common use at the NASA Headquarters.

<u>Rule 3: The products are able to be scaled up</u>. The products selected must be able to be scaled up (in capacity, size, or across platforms). Vendor stability is also an aspect of scalability.

Rule 4: The products provide interfaces for interoperability. To promote the interoperability of systems and the reuse of information, these products must be capable of being interfaced with other compliant products.

1.4 **Standards Update and Control**

The standards provided by this document are under Headquarters Information Resources Management Division (code CI) configuration control and provide the baseline for the NASA Headquarters hardware and software systems. Where product, version or size ranges are provided, products which fall within the range will be authorized without Configuration Change Board approval. Requests for products will be processed using the Service Request . Depending on funding required, product acquisition will be processed as either a Class 1 or Class 2 Service Request in accordance with the work control process. No engineering test or evaluation will be required.

Requests for products or systems defined that are not part of the standards list require submission through the SR process. The change will be forwarded to the Configuration Change Board (CCB) for final approval and will normally require Engineering test and evaluation.

Non-standard products that are installed do not automatically update this standard. When products are installed in sufficient quantity or it has been determined through engineering evaluation that a later version or enhanced configuration are required, this request will be processed through the CCB/SRRT process to update this standard. The list will be expanded with other products used in significant quantities at NASA Headquarters.

2.0 PLATFORM COMMENTS

2.1 Personal Workstation Products

Tables A-1 through A-11 list software products for personal desktop workstations. Products that are bundled with the desktop operating system are normally not listed. No standard products are included for MS-DOS non-Windows systems. Acquisition of additional software for MS-DOS desktop systems is discouraged. However, existing services and capabilities will be maintained and supported as required.

As a part the NASA Headquarters Server Architecture (HSA), a number of software applications have been identified that are included on all workstations, HQ-wide. These applications are referred to as Core applications, and are identified in tables A-1, A-2, and A-3.

2.2 File Server Products

The product categories in Table A-6 and A-7 refer to standalone products that can be acquired individually, not those bundled with each platform's operating system. Note that the categories for file servers differ markedly from those of desktop systems or hosts.

APPENDIX A

STANDARD SOFTWARE PRODUCT TABLES

This appendix contains tables of integration standard products. These are intended to provide an easy guide to the various products for individuals responsible for selecting Federal Information Processing Resource (FIPR) products for NASA Headquarters organizations.

The information is organized as follows:

Table

A-1: Macintosh Core Desktop Software Load

A-2: Windows 95 Core Desktop Software Load

A-3: Windows NT Core Desktop Software Load

A-4: Macintosh Baseline Desktop Software (Above Core)

A-5: Windows 95/Windows NT Baseline Desktop Software (Above Core)

A-6: NT File Server Software Products

A-7: Macintosh File Server Software Products

A-8: UNIX File Server Software Products

A-9: Laptop Core Software Load

A-10: Workstation Support Tools

A-11: Advanced Internet Development and Maintenance Tools

A-12: Personal Digital Assistants (PDAs) Desktop Software (Above Core)

A-13: Personal Digital Assistants (PDAs) Software (Core)

A-14: Personal Digital Assistants (PDAs) Compatible Software (Above Core)

Approved requests for Baselined software products will be satisfied by installation of the target version of the product as shown in the corresponding table.

Table A -1 Macintosh Core Desktop Software Load

Core Master Ids: PP062399   (Power PCs)
G3062399   (Classic G3s)
B&WG3062399   (Blue & White G3s)

Category	Application	Status	Target Version	Supported Version(s)	Industry current	H	C	S
Anti-Virus	Norton AntiVirus		5.03	5.03	5.03	Y		Y
Backup	Above Core IomegaWare		1.13	1.13	1.13			
Calendar	MeetingMaker XP		5.0.3	5.0.3	5.5	Y		Y
Electronic Mail	Eudora Pro		3.1	3.01	4.2	Y		Y
	Notify Mail		3.0.4	3.0.1	3.1.1			
File Compression	Above Core							
File Extraction	StuffIt Expander		4.0.2	4.0.2	5.1	Y		Y
File Viewers	N / A							
Forms	Informed Filler		2.6.1	2.6.1	2.6.3	Y	Y	Y
FTP Client	Fetch		3.0.1	3.0.1	3.0.3	Y		Y
Image File Editor	N / A							
Internet Configuration Util	Internet Config		1.4	1.3	1.4	Y		Y
Metering	KeyAccess		5.0.2	5.0.2	5.0.2			Y
Movie Player	Movie Player		3.0	3.0	3.0	Y		Y
	QuickTime		3.0	3.0	4.0	Y		Y
	QuickTime Plugin		3.0	3.0	4.0	Y		Y
Network Stack	Open Transport (7.5.5)			1.1.2				
	Open Transport (8.1)		1.3.1	1.3.1	1.3.1			
	Open Transport (8.5)		2.0.2	1.3.1	2.0.2			
	LessTalk		1.05	1.05	1.05			
Newsgroup Reader	Netscape Communicator		4.5	4.5	4.6	Y		Y
Operating System	Mac OS		8.1	8.1	8.6			Y
	Mac OS w/B&WG3		8.5.1	8.5.1	8.6			
PDF Viewer	Acrobat Reader		3.01	3.01	4.0	Y		Y
	Acrobat Plugin		3.01	3.01	4.0	Y		Y
PDF Writer	Above Core							
Presentations	PowerPoint w/PowerPoint -7 translator		8.0	8.0	8.0	Y	Y	Y
Screen Saver	AfterDark		4.03	4.03	4.04			Y
Software Management	SMS Client		1.2	1.2	1.2			Y
Sound Player	Sound Manager		3.3	3.1	3.3	Y		Y
	Real Audio Player		5.0	5.0	G2	Y		Y

Legend:

H=Available for Home Use
C=Concurrent License
S=May be obtained via call-in service to Help Desk
NS = No Script
DIS = Discontinued
NI = No Information

Columns:

Target Version: Baselined, approved, version to deploy
Supported Version: Version(s) supported at NASA HQ
Industry Current: Most recent vendor release

Table A -1 Macintosh Core Desktop Software Load

Core Master Ids: PP062399   (Power PCs)
G3062399   (Classic G3s)
B&WG3062399   (Blue & White G3s)

Category	Application	Status	Target Version	Supported Version(s)	Industry current	H	C	S
Spreadsheet	Excel		8.0	8.0	8.0	Y	Y	Y
Still Graphics Viewer	Netscape Communicator		4.5	4.5	4.6	Y		Y
Suite	MS Office Std		98	98	98	Y	Y	Y
Telnet Client	BetterTelnet		1.2.2	1.2.2	1.2.3	Y		Y
Web Browser	Netscape Communicator		4.5	4.5	4.6	Y		Y
Web Editor	Netscape Communicator		4.5	4.5	4.6	Y		Y
	MS Word		8.0	8.0	8.0	Y	Y	Y
Word Processor	Word w/ Internet Assistant		8.0	8.0	8.0	Y	Y	Y
x.500 Search	Netscape Communicator (Available via HQ Homepage)		4.5	4.5	4.6	Y		Y

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Supported Version: Version(s) supported at NASA HQ
Industry Current: Most recent vendor release

Table A-2 Windows 95 Core Desktop Software Load

Core Master Id: HQ062399

Category	Application	Status	Target Version	Supported Version(s)	Industry Current	H	C	S
Anti-Virus	Command AntiVirus		4.54 SP-2	4.54 SP-1, 4.54 SP-2	4.54 SP-2	Y		Y
Backup	Windows		Win 95	Win 95	Win 95			Y
Calendar	MeetingMaker XP		5.03	5.03	5.5x	Y		Y
Electronic Mail	Eudora Pro Notify Mail		3.0 1.2.1	3.0 1.0	4.2 1.2.1	Y Y		Y
File Compression	WinZip		7.0	6.3	7.0 SP 1	Y		Y
File Extraction	WinZip		7.0	6.3	7.0 SP 1	Y		Y
File Viewers	Above Core							
Forms	Informed Filler		2.6.1	2.6.1	2.6.3	Y	Y	Y
FTP Client	Chameleon		8.0	6.0	HostLink 97 8.0	Y		Y
Image File Editor	MS Paint Irfanview 32		Win 95 2.85	Win 95 2.85	Win 95 2.85	Y		Y
Internet Configuration Util	N / A							
Metering	Express Meter		3.6	3.6	4.0			
Movie Player	QuickTime for Win		3.0	3.0	4.0	Y		Y
Multi-Language Support	Windows 95 Multi-Language Support		Win 95	Win 95	Win 95			
Network Stack	MS TCP/IP & Client MS IPX/SPX &NW Client		Win 95	Win 95 Win95 & Novell	Win 95 Win95			Y Y
Newsgroup Reader	Netscape Communicator		4.5	4.5, 4.5.1	4.6	Y		Y
Operating System	Windows 95		4.00.950a	4.00.950a, 4.00.950b	4.00.950b			Y
PDF Viewer	Acrobat Reader		3.01	3.01	4.0	Y		Y
PDF Writer	Above Core							
Presentations	PowerPoint w/Internet Assistant		8.0	8.0	8.0	Y	Y	Y
Screen Saver	Windows		Win 95	Win 95	Win 95			Y
Software Management	SMS Client		1.2 SP-4	1.2 SP-4	2.0			Y
Sound Player	Real Audio Player		5.0	5.0	G2	Y		Y
Spreadsheet	Excel w/Internet Assistant		8.0	8.0	8.0	Y	Y	Y

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Target Version: Baselined, approved, version to deploy
Supported Version: Version(s) supported at NASA HQ
Industry Current: Most recent vendor release

Table A-2 Windows 95 Core Desktop Software Load

Core Master Id: HQ062399

Category	Application	Status	Target Version	Supported Version(s)	Industry Current	H	C	S
Still Graphics Viewer	Netscape Communicator		4.5	4.5, 4.5.1	4.6	Y		Y
Suite	MS Office Std		97 SR-2	97 SR-2	97 SR-2	Y	Y	Y
Telnet Client	Chameleon		8.0	6.0, 8.0	HostLink 97 8.0	Y		Y
Web Browser	Netscape Communicator		4.5	4.5, 4.5.1	4.6	Y		Y
Web Editor	Netscape Communicator		4.5	4.5, 4.5.1	4.6	Y		Y
	MS Word		8.0	8.0	8.0	Y	Y	Y
Word Processor	Word w/Internet Assistant		8.0	8.0	8.0	Y	Y	Y
x.500 search	Netscape Communicator (Available via HQ Homepage)		4.5	4.5, 4.5.1	4.6	Y		Y

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Columns:

Target Version: Baselined, approved, version to deploy
Supported Version: Version(s) supported at NASA HQ
Industry Current: Most recent vendor release

Table A-3: Windows NT Core Desktop Software Load

Core Master Id: NT032299

Category	Application	Status	Target Version	Supported Version(s)	Industry Current	H	C	S
Anti-Virus	Command AntiVirus		4.54 SP2	4.54 SP2	4.54 SP2	Y		Y
Backup	NT Backup		NT 4.0	NT 4.0	NT 4.0			
Calendar	Meeting Maker		5.03	5.03	5.5x			Y
Electronic Mail	Eudora Pro		3.0	3.0	4.2			Y
File Compression	WinZip		7.0	6.3	7.0			Y
File Extraction	WinZip		7.0	6.3	7.0			Y
File Viewers	Above Core							
Forms	Informed Filler		2.6.1	2.6.1	2.6.3		Y	Y
FTP Client	Chameleon		8.0	6.0	HostLink 97 8.0			
Image File Editor	MS Paint Irfanview 32		NT 4.0 2.85	NT 4.0 2.85	NT 4.0 2.85			
Internet Configuration Util	N / A							
Metering	Express Meter		3.6	3.6	4.0			Y
Movie Player	QuickTime for Win		3.0	3.0	4.0			Y
Multi-Language Support	Windows NT Multi-Language Support		Windows NT	Windows NT	Windows NT			
Network Stack	MS TCP/IP & Client MS IPX/SPX & NW Client		NT 4.0	NT 4.0 NT 4.0	NT 4.0 NT 4.0			
Newsgroup Reader	Netscape Communicator		4.5	4.5	4.6			Y
Operating System	NT4		NT4 w/SP-4	NT4 w/SP-3, NT4 w/SP-4	NT4 w/SP-5			
PDF Viewer	Acrobat Reader		3.01	3.01	4.0			Y
PDF Writer	Above Core							
Presentations	PowerPoint w/Internet Assistant		8.0	8.0	8.0		Y	Y
Screen Saver	NT 4.0		NT 4.0	NT 4.0	NT 4.0			
Software Management	SMS		1.2	1.2	2.0			Y
Sound Player	Media Player Real Audio Player		NT 4.0 5.0	NT 4.0 5.0	NT 4.0 G2			Y
Spreadsheet	Excel		8.0	8.0	8.0		Y	Y
Still Graphics Viewer	Netscape Communicator		4.5	4.5	4.6			Y
Suite	MS Office Std		97	97	97		Y	Y
Telnet Client	Chameleon		8.0	6.0, 8.0	HostLink 97 8.0			Y

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Target Version: Baselined, approved, version to deploy
Supported Version: Version(s) supported at NASA HQ
Industry Current: Most recent vendor release

Table A-3: Windows NT Core Desktop Software Load
Core Master Id: NT032299

Category	Application	Status	Target Version	Supported Version(s)	Industry Current	H	C	S
Web Browser	Netscape Communicator		4.5	4.5	4.6			Y
Web Editor	Netscape Communicator		4.5	4.5	4.6			Y
	MS Word		8.0	8.0	8.0		Y	Y
Word Processor	Word w/Internet Assistant		8.0	8.0	8.0		Y	Y
x.500 search	Netscape Communicator (Available via HQ Homepage)		4.5	4.5	4.6			Y

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Target Version: Baselined, approved, version to deploy
Supported Version: Version(s) supported at NASA HQ
Industry Current: Most recent vendor release

Table A-4 Macintosh Baseline Desktop Software (Above Core)

Category	Application	Status	Target Version	Supported Version(s)	Industry Current	H	C	S
Asynchronous Communication	Core							
Backup	Retrospect / Remote	NS	4.0	4.0	4.1			
Data Base Management System (DBMS)	Visual FoxPro Filemaker Pro 4th Dimension 4D Server	NS	6.0 4.0	6.0 4.0, 4.1 3.5, 6.0 1.1.1C	6.0 4.1 6.0 6.0	Y	Y	Y
Decision Support System Tools	PowerPlay		5.2	5.2	5.21		Y	Y
Desktop Publishing	PageMaker Quark Express		6.5 4.0.4	6.X 4.0.3, 4.0.4	6.5.2 4.04			
Dictation Tools	N / A							
Document Management	N / A							
File Conversion	MACLink Plus/ Translator Pro		9.0	9.0	10.1			
File Viewers	N / A							
FAX	FAX Senior		2.2.0	2.2.0	2.2.0	Y		
Flow Charting Tools	Top Down Flowcharter		5.5	5.5	5.5		Y	Y
Graphics & Multimedia Tools	Canvas Freehand Illustrator Photoshop Claris Draw Photo Enhancer Plus Kai's Power Tools		6.0 8.0 8.0 5.0 1.01 3.2 5.0	6.0 8.0 6.0/8.0 4.0/5.0 1.0 3.2 5.0	6.0.1 8.0.1 8.0 5.5 1.0 3.2		Y	Y
GUI Query	N / A							
HTML Tools	BareBones BBEdit		5.03	4.5.1 / 5.0	5.1			
Image File Editor	Core							
Middleware & Database Tools	Sybase Open Client Merant (InterSolv)		11.1 3.5	11.1 3.0, 3.5	11.1 3.5			
Multi-Language Support	TBD							
Network Stack	ARA (Mac OS 8.5.1) Dave OT PPP		3.1 2.0	3.1 2.0	3.1.3 2.0	Y Y		Y Y
PDF Writer	Acrobat Suite		3.01	3.01	4.0			
Project Management	Project Fast Track		4.0 5.02	4.0 4.0 / 5.0	4.0 6.03	Y	Y Y	Y Y
Scanning Tools	N / A							
Sound Player	Core							

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Table A-4 Macintosh Baseline Desktop Software (Above Core)

Category	Application	Status	Target Version	Supported Version(s)	Industry Current	H	C	S
Speaker Driver	Built-in to system							
Telnet	Entire Connection Datacomet		4.5.1	3.11 4.5.1	3.2 4.5.1			
Web Editor	Dreamweaver		2.0	2.0	2.0			

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Supported Version: Version(s) supported at NASA HQ
Industry Current: Most recent vendor release

Table A-5 Windows 95/Windows NT Baseline Desktop Software (Above Core)

Category	Application	Status	Target Version	Supported Version(s)	Industry Current	H	C	S
Asynchronous Communication	ProComm Plus		4.7	2.0 (DOS)	4.7			
Backup	95 Backup NT Backup							
Data Base Management System (DBMS)	Visual FoxPro Filemaker Pro Paradox Win Access		6.0 4.0 8.0	6.0 4.0, 4.1 8.0 8.0	6.0 4.1 8.0 8.0 SR-2	 Y 	 Y Y	 Y Y
Decision Support System Tools	PowerPlay		5.2.1	5.2.1	6.5		Y	
Desktop Publishing	PageMaker Quark Express		6.5	6.5	6.5 4.0.4			
Dictation Tools	Naturally Speaking		2.02	2.02	3.5			
Document Management	Basis Plus		8.2	8.2	8.2			
File Conversion	KeyView		4.2	4.2	6.0			
File Viewers	Office Viewers		97	97	97	Y		Y
FAX	FAX Senior		5.2	5.0	6.0.1	Y		
Flow Charting Tools	Top Down Flowcharter ABC Flowcharter		5.5	5.5 7.0	5.5		Y	Y
Graphics & Multimedia Tools	Canvas Illustrator Photo Enhancer Plus Freehand Photoshop VisioPro Kai's Power Tools		6.0 7.0 3.2 8.0 5.0 5.0 5.0	6.0 6.0/7.0 3.2 8.0 4.0, 5.0 4.0 5.0	6.0.1 8.0 3.2 8.0.1 5.5		Y	Y
GUI Query	IMPROMPTU		4.01	3.04	5.0			
HTML Tools	Core							
Image File Editor	Lview Pro		2.0	2.0	2.0			
Middleware & Database Tools / ODBC	Sybase Open Client Microsoft ODBC Merant (Intersolv) Oracle/Net8 BASIS Inprise CA OpenIngress		11.1.1 3.5.1 3.5 8.0.4 8.2	10.0 – 11.1.1 3.5 3.0, 3.5 8.0.4 8.2 1.2 2.8	11.1.1 3.5.1 3.5 8.0.5 8.2 1.2 2.8			
Multi-Language Support	Core							
Network Stack	Core							
PDF Writer	Acrobat Suite		3.01	3.01	4.0			

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Columns:

Target Version: Baselined, approved, version to deploy
Supported Version: Version(s) supported at NASA HQ
Industry Current: Most recent vendor release

Table A-5 Windows 95/Windows NT Baseline Desktop Software (Above Core)

Category	Application	Status	Target Version	Supported Version(s)	Industry Current	H	C	S
Project Management	Project FastTrack		98 w/SR-1 5.02	98 w/SR-1 5.02	98 w/SR-1 6.03	 Y	Y Y	Y Y
Scanning Tools	OmniPage Pro Acrobat Suite (Capture)		9.0 3.01	8.0 3.01	9.0 4.0			
Sound Player	Wplany		1.2a	1.2a	1.2a	Y		Y
Speaker Driver	PC Speaker		3.1	3.1	3.1			
Telnet	Entire Connection F-Secure SSH		3.11 1.1	3.11 1.1	4.1.1 2.0			
Travel	Travel Manager		7.1a	7.1	7.1c			Y
Web Editor	Dreamweaver		2.0	2.0	2.0			

Legend:

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NI = No Information

Columns:

Target Version: Baselined, approved, version to deploy
Supported Version: Version(s) supported at NASA HQ
Industry Current: Most recent vendor release

Table A-6 NT File Server Software Products

Category	NT-Certified			
	Product	Target Version	Supported Version	Industry Current
Standard Server Configuration				
Anti-virus	Sophos Sweep		3.14	
	Inoculate	4.0	4.0	4.0
Backup	Backup Exec	6.11	6.11	6.11
	Legato Networker	4.4.1	4.4.1	5.5
Disk Defragmentation	Diskeeper	2.0	2.0	4.0
File Transfer	N / A			
Network Operating System	NT	4.0 w/SP4	4.0 w/SP4	4.0 w/SP4
***Print Spooling**	NT	NT4 w/SP4	NT4 w/SP4	NT4 w/SP4
Remote File Access	N / A - Provided by UNIX			
Utilities	Patrol	3.3	3.2.09	4.0
Specialized Server Configuration				
Asset Management	SMS	1.2 w/SP4	1.2 w/SP4	2.0
FAX	FAX Senior	2.1.8	2.1.4	3.0.2
Metering	Express Meter	3.6	3.6	4.0
Middleware & Database Tools	SQL Server	6.5 w/SP5a	6.5 w/SP5a	7.0
Security	VeriSign	4.0	4.0	4.0
Web Server	Netscape Enterprise	3.6	3.6	3.6

* Standard on Server with Print Services

Table A-7 Macintosh File Server Software Products

Category	Macintosh-Certified			
	Product	Target Version	Supported Version	Industry Current
Standard Server Configuration				
Anti-virus	NAV	5.0.3	5.0.3	5.0.3
Asset Management	N / A – Provided by NT			
Disk Defragmentation	N / A			
File Transfer	N / A			
Network Operating System	Mac OS	8.5.1	7.1, 7.5.5	8.6
Print Spooling	Mac OS	8.5.1	7.1, 7.5.5	8.6
Remote File Access	N / A			
Utilities	N / A			
Web Server	N / A			
Specialized Server Configuration				

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Table A-7 Macintosh File Server Software Products

Category	Macintosh-Certified			
	Product	Target Version	Supported Version	Industry Current
Backup	Retrospect	4.1	4.0	4.1
FAX	4-Sight	2.6	4.0	
	FAX Senior		2.6	3.02
Metering	KeyServer	5.0.2		5.0.2
Middleware & Database Tools	Filemaker Pro Server	3.0	3.0	4.1
	4D		1.1.1c	6.5
	Calendar Set		1.1fc2	3.0
Security	Empower	5.0.5	5.0.5	5.0.5

Table A-8 UNIX File Server Software Products

Category	UNIX-Certified			
	Product	Target Version	Supported Version	Industry Current
Standard Server Configuration				
Anti-virus	N/A			
Asset Management	N/A			
Backup	N/A			
Disk Defragmentation	N/A			
FAX	N/A			
File Transfer	N/A			
Metering	N/A			
Network Operating System	Sun Solaris	2.6 w/Y2K Hotfix, 2.7 w/Y2K Hotfix	2.5, 2.5.1, 2.6 w/Y2K Hotfix	2.6 w/Y2K Hotfix, 2.7 w/Y2K Hotfix
	IBM AIX	4.1 w/Y2K Hotfix	3.2,4.1 w/Y2KHotfix	4.3 w/Y2K Hotfix
	SGI Irix	5.3 w/Y2K Hotfix, 6.5 w/Y2K Hotfix	5.2,5.2 w/Y2K Hotfix	5.3 w/Y2K Hotfix, 6.5.3 w/Y2K Hotfix
	Linux (RED HAT V .6)	2.2	1.2.3	
Print Spooling	N/A			
Remote File Access	TBD			
Utilities	Perl	Perl 5	Perl 4, Perl 5	Perl 5
	GCC	2.8	2.70/2.8	2.8
	Patrol	3.3	3.1	3.3
Specialized Server Configuration				
Middleware & Database Tools	Oracle/Net8	8.04	8.04	8.05
Security	Verisign	4.0	4.0	4.0
Web Server	Netscape Enterprise	3.6	3.6	3.6
Web Tools	Oracle Developer Server	2.1	2.1	

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Table A-9 Laptop Core Software Load

Category	Macintosh	Windows 95
Communication/ Network	Mac TCP 2.0.6n FreePPP 2.5 V 2 Open Transport 1.31	Chameleon 6.0
Dial-up	Dave 2.0 OT PPP	Native Win 95
Electronic Mail	Eudora Pro 3.1	Eudora Pro 3.0.1
Operating System	Mac OS 8.1, 8.5.1	Win 95, 4.00.950a, 400.950b
Calendar Management	MeetingMaker XP 5.03	MeetingMaker XP 5.03
Anti-Virus	NAV 5.0.3	Command AntiVirus 4.54 w/SP1
Suite	Office 98 Internet Tools	Office 97 Std Internet Tools

Table A-10 Workstation Support Tools

Category	Macintosh	Windows NT	Windows 95
Backup	Retrospect 4.1	Ghost 5.1b	Ghost 5.1b
Diagnostics	Norton Utilities 4.0.3 Apple Disk First Aid 8.5.1 DiskWarrior 1.0.3 Conflict Catcher 8.0.4 FWBHardDisk Tools 3.0.1		HDTS v5.0a RAMalyzer v2.1 CPR Tools v3.0 DisplayMate Pro v1.0 ExperTrace 5.7.3 SCSI Pro Basic v5.0 Norton Utilities 4.0
Installation Tools	VISE 5.5.2 SMS 1.2	SMS 1.2 WinInstall 6.0.4	SMS 1.2 WinInstall 6.0.4

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Table A-11 Advanced Internet Development and Maintenance Tools
(Requires Class 1 Service Request (SR))

Category	MS-Windows/95/NT	Macintosh	UNIX
Advanced HTML Tools/Utilities	RTF to HTML 3.4 Forefront Web Wacker 2.0 Black Widow 3.63 MapEdit 2.25 Adobe Exchange Writer 3.1	RTF to HTML 3.4 Forefront Web Wacker 2.0 WebMap 2.0	RTF to HTML 3.4 MapEdit 2.25 Postscript to HTML 2.0 LATEX to HTML 95.1 WebLint 1.017

Development Environments	PowerBuilder 5.0
	MS Visual Basic 6.0
	   Professional
	Visual FoxPro 6.0
	Cold Fusion Studio 4.0
	Fusion 4.0
		PowerBuilder 5.0
		MS Visual Basic 6.0
		   Professional
		Visual FoxPro 6.0	

Events Calendar		Foresight Tech Calendar Set 3.2	
Graphics & Multimedia Tools	Adobe Premier 5.1 Adobe After Effects Pro 4.0 Macromedia Director Std 7.0 Macromedia Flash 3.0 Macromedia Authorware 5.0 Progressive Networks 5.0 Alien Skin Eye Candy 3.0.1 Extenis Intellihance 4.0 Debabelizer 4.5.1	Adobe Premier 5.1 Adobe After Effects Pro 4.0 Macromedia Director Std 7.0 Macromedia Flash 3.0 Progressive Networks 5.0 Alien Skin Eye Candy 3.0.1 Extenis Intellihance 4.0 Debabelizer 3.0.1	Adobe Illustrator 8.0
Language & Scripting Tools	Macromedia Director Lingo 7.0 Java 2 SDK 1.2.1 Java JDK 1.0.2 Visual Café 2.0 JBuilder 3.0	Macromedia Director Lingo 7.0 Applescript 1.1.1 Java JDK 1.0.2 Visual Café 2.0	PERL 5.05 C++ ObjectC Java 2 SDK 1.2.1 Java JDK 1.0.2
Middleware & Database Tools	Allaire ColdFusion 4.0 HAHT Software 2.0 SQL Server 7.0 Access Development Tool 8.0		Allaire ColdFusion 4.0 HAHT Software 2.0 Linkscan 3.1 Oracle 8.04 Oracle Developer Server 2.1
Performance Monitoring Tool			Wusage 6. MKStats 20 WebStats 3.0
Search Engine	Microsoft NT Index Server 2.0		Verity Information Server 3.6
Threaded Discussions	Forums 2.0		
Web Servers	Netscape Suite-SpotPro NT 4.0		Netscape Suite-SpotPro 4.0

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Table A-12 Personal Digital Assistants (PDAs) Desktop Software (Above Core)

Category	MS-Windows/95/NT	Macintosh
Palm Software	Palm Desktop 3.0	Palm Desktop 2.0
Electronic Mail	MultiMail 2.25 PC Conduit	MultiMail 2.25 Mac Conduit
Specialized Syncing	Intellisync 3.0	
Web Document Syncing	AvantGo 2.0	

Table A-13 Personal Digital Assistants (PDAs) Software (Core)

Category	Palm Compatible Software
Calculator	Calc **
Document Storage	Memo Pad **
Expense Report	Expense **
Mail Client	MultiMail 2.25
Operating System	Palm OS 3.1
Personal Contacts	Address Book **
Scheduler	DateBook **
Security	Security **
To Do List	To Do List **
** Software Built-in to ROM of Palm PDA Unit.	

Table A-14 Personal Digital Assistants (PDAs) Compatible Software (Above Core)

Category	Palm Compatible Software
Database	JFile 3.2f
Document Converter	Documents-To-Go 2.0
Memory Optimizer Utility	Recycle 1.0
Web Browser	HandWeb 2.01
Web Page Syncing	AvantGo 2.0

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APPENDIX B

STANDARD HARDWARE PRODUCT TABLES

The hardware standards for desktop systems and file servers are shown in Table B-1 (*Minimum Desktop Hardware Systems*). These are not intended to specify a specific manufacturer or source but only a specific class of equipment that will meet the necessary standards. This table represents the minimum configuration planned for Headquarters desktop workstation systems. As funding permits all desktop systems below this level will be upgraded.

"BUY TO" PRODUCT TABLES

It is likely that products, both hardware and software, will be updated by their manufacturers and make obsolete those currently recommended in the product standards established in the previous sections. In where the latest, currently available product is already been established as the minimum baseline, the "Buy To" and the standard will be the same. In many cases, it will be no longer possible to acquire the standard products. When this occurs, an SR should be submitted for approval through the formal CCB process.

Desktop Software is constantly under evaluation. Please contact Engineering for the latest release information. As new items are released and adopted for Headquarters use, they will be added to the baseline tables contained in this document.

Table B-2 (*Desktop Hardware "Buy To" Products*) represents the recommended desktop systems that should be acquired. These reflect the current market or mass buy provisions that are available for Headquarters users. When desktop systems are purchased, they will be specified at these configurations.

Table B-3 (*Laptop Hardware "Buy To" Products*) represents the recommended laptop systems that should be acquired. These reflect the current market or mass buy provisions that are available for Headquarters users. When laptop systems are purchased, they will be specified at these configurations.

The information in this Appendix is organized as follows:

Table

> B-1: Minimum Desktop Hardware Systems

> B-2: Desktop Hardware "Buy To" Products

> B-3: Laptop Hardware "Buy To" Products

> B-4: Accessible Computer Technology

> B-5: Printers and Other Peripheral Equipment

> B-6: Personal Digital Assistants (PDAs) Hardware

Table B-1 Minimum Desktop Hardware Systems

Category	PC	Macintosh
CD ROM **	None	None
CPU	Pentium 133 MHz	Power PC 7300 / 120MHZ Power PC 8500 / 120MHZ Power PC 9500 / 120MHZ
Disk	1 GB	1 GB
Network Interface Card (NIC)	NDIS - 3 Compliant	Built in 10Base T
Keyboard	101 Keys Extended	101 Keys Extended
Video Board	2 MB PCI	1 MB
Memory	64 MB	64 MB
Monitor	14" SVGA, .28 pitch	13 inch color
Tape	None (Network Backup)	None (Network Backup)

Table B-2 Desktop Hardware "Buy To" Products

Category	PC	Macintosh
CD ROM **	24X or Better	24X
CPU	Pentium II 333 MHz	PowerPC G3 / 300MHZ
Disk	4 GB	6 GB
Network Interface Card (NIC)	INTEL PRO 100+ 10/100MB	Built-in 10/100 MB Card
Keyboard	101 Keys Extended w/W95 key	101 Keys Extended
Video Board	2MB PCI	1MB/2MB
Memory	64 MB	64 MB
Monitor	17" Color, .27 Dot or Better, PC-MAC Compatible	17" Color, .27 Dot or Better, PC-MAC Compatible
Speakers	Soundblaster Compatible	Built in
Sound Card	Soundblaster PCI 128 or Compatible PCI	Built in

* CD-ROM and Floppy Drive may be removable/exchangeable
** Not Currently part of the standard configuration

Table B-3 Laptop Hardware (Buy To)

Category	PC	Macintosh
CD ROM*	8X or better	8X or better
CPU	P300 or higher	117 MHz PowerPC
Display	11" Active Matrix 1024x768	11" Active Matrix 1024x768
Floppy*	3.5" HD	3.5" HD
Hard Disk	1.2 GB	1.2 GB
Memory	64 EDO (upgradable to 128)	64 (upgradable to 128 MB) 256K Level-2 Cache
MODEM	PCMCIA 56K	56K
Monitor Port	Yes	N / A
Network Support	PCMCIA TYPR II 10/100MB	10/100 MB
Other	PCI expansion bus	PCI expansion slots Extended Keyboard Mouse
Parallel Ports	1 Enhanced	
PCMCIA	2-Type II	
Serial Ports	2 Serial or 1 Serial and 1 Mouse (16550 UART)	
Sound Card	16-bit stereo	16-bit stereo
Video Card	32-bit PCI 2MB 65KHz @ 800x600	2MB Upgradable to 4 MB

* CD-ROM and Floppy Drive may be removable/exchangeable

** Not Currently part of the standard configuration

Table B-4 Accessible Computer Technology

Category	PC	Macintosh
Keyboard for Disadvantaged (Carpal Tunnel Syndrome)	Microsoft Ergonomic Keyboard	Not Identified
Mouse for Disadvantaged (Carpal Tunnel Syndrome)	Kensington Expert (WIN95)	Not Identified

Table B-5 Printers and Other Peripheral Equipment

Category	Manufacturer	Equipment Specs
Network Printers	Hewlett Packard	5Si MX (PS)
Color Printers	Tektronix	Phaser 740+ ro extended
Printers (Home Use)	Hewlett Packard	6 Lxi
FAX Equipment (Home Use)	Brother	MP 1950
Stand Alone Desktop Printers	NEC	SuperScript 870 for PC SuperScript 870 with NIC for MAC

Table B-6 Personal Digital Assistants (PDAs) Hardware

Category	PDA Supported
PDA Unit	Palm III, Palm IIIx, Palm V
Cradle	Palm III compatible Palm V compatible
Modem	PalmModem for Palm III PalmModem for Palm V
USB PDA Connector (Mac and PC)	Keyspan USB PDA Connector
Serial Connector (Mac only)	MACPac (2.0) Serial Connector

**NASA HEADQUARTERS DESKTOP HARDWARE/SOFTWARE
BASELINE PRODUCT SUITE
ADDENDUM - EXCEPTIONS TO BASELINE SOFTWARE**

CMLS-HWS-05 Addendum
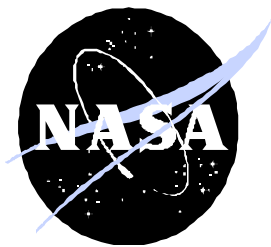
National Aeronautics and
Space Administration

Headquarters
Washington, D.C

Version 1.1
August 31, 1999

EXCEPTIONS TO BASELINE SOFTWARE

This addendum is provided for two complimentary purposes. First, it simply provides a means of tracking software approved as an "exception to the baseline". Secondly, it provides Code CI management with a list of software which has been tested against the core software load. Code CI Management can then recommend appropriate software from this list to a user who submits a Service Request for software for a requirement which necessitates essentially the same functionality as a previously tested and approved item on this list. The desired result is to reduce procurement, engineering and other support costs by minimizing the number of unique software packages on HQ workstations.

The information is organized as follows:

Table

  1: Windows 95

  2: Windows NT

  3: NT Server

  4: Macintosh

Table 1: Windows 95	
Category	**Application**
Backup Utility	Dantz Retrospect Advanced Driver Kits
Decision Tools	Ithink v5.0
Desktop Publishing	Adobe Desktop Publishing
Dictionary	Merriam Webster Dictionary thesaurus
File Sharing Utility	Timbuktu Pro 32
Graphics	Art Explosion 250K Live Picture Reality Studio MasterClips Web Art Metacreation Fractal Design Painter
Medical Related Tools	KI Physio Logic 3.07 Occupational Health Management 4.0.1
Plotting	PSI Plot v5
Productivity Suite	Lotus SmartSuite 97 Microsoft Works 95
Server	IBM OS/2 Warp connect
Translator	Windows Translator 98
Voice Recognition	IBM ViaVoice gold WIN95
Visually-Impaired Utility	GW Micro Window Eyes v3.0
Web Authoring	MS FrontPage (old)
Web Cam	Connectix Virtual PC/PC DOX
Web DB Client	Lexis Nexis 7.11 Westmate 7.11

Table 2: Windows NT	
Category	**Application**
Disk Maintenance Utility	Diskeeper NT
File Sharing Utility	Timbuktu Pro 32
Help Desk Agent	Patrol Agent/KM MSWIN NT-WKGP

Table 3: NT Server	
Category	**Application**
Intranet/Extranet Mgmt	Netscale SuiteSpot Pro
Migration Utility	ShareWay IP Gateway
Network Mgmt	Etherpeek
Monitoring	Alert Enhanced for SiteScan
PC Utility	ExperTrace SCSI Pro Basic
PDF Plug-In	REDAX

Security	ACE Agent for Open VMS 1 User PGP software and keys VeriSign Class 2 Digital ID VeriSign Digital ID
System Manager	V-Communications system commander
S/W Distribution/Installation	Seagate WinInstall 6.0
Web Server	Stronghold 2.1

Table 4: Macintosh	
Category	**Application**
Compiler	Absoft Fortran F77 SDK MAC
Dial-in Terminal Emulator	Microphone Pro 2.x
File Conversion (PC to Mac)	Conversion Plus 4.0
Graphics	Art Explosion 250K Bryce 3D 3.0 Claris Impact 2.0 Live Picture Reality Studio Markzware FlightCheck MasterClips Web Art PhotoMontage PhotoEnhancer Plus 3.2
Programming Language	IDL (Interactive Data Language) 5.0
Scanning Utility	ScanMaker E6 Upgrade Software
Web Authoring	Beyond Press
Web DB Client	Lexis Nexis 7.11 Westmate 7.11